



*WHITE CEMENT CEM II / A-LL 52.5 R*

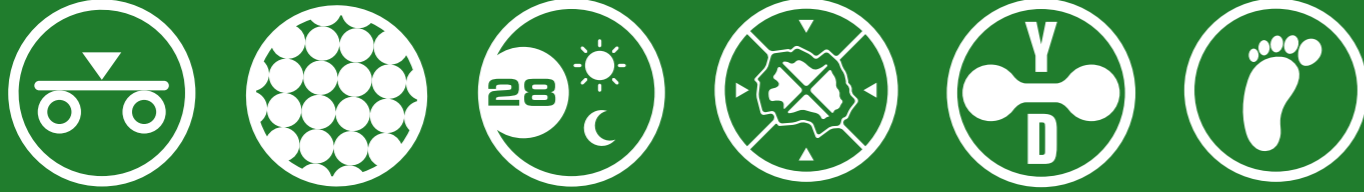
**ECOSHINE**



**ÇİMSA**



WHITE CEMENT CEM II / A-LL 52.5 R



SUSTAINABLE STRENGTH FOR MODERN CONSTRUCTION



Çimsa EcoShine is a new generation white cement that delivers low carbon emissions while maintaining high performance. Compared to Çimsa Super White Cement, the product offers a reduced environmental impact and serves as an ideal solution for producing sustainable cement-based mixtures. The formulation provides high strength and superior aesthetic appearance across a wide range of applications such as construction chemicals, precast elements, glass fiber reinforced concrete (GFRC), lightweight concrete, autoclaved aerated concrete (AAC), terrazzo tiles, stair treads, and architectural concrete. The optimized composition supports both early and final strength development, ensuring production efficiency and consistent quality. Low alkali content increases durability, while high whiteness value ensures color uniformity and excellent surface quality in architectural and decorative applications.

**ÇİMSA ECOSHINE CEM II/A-LL 52.5 R WHITE CEMENT IS PRODUCED IN ACCORDANCE WITH TS EN 197-1 AND S 21 STANDARDS AND HAS THE FOLLOWING PROPERTIES:**



Chemical Properties	Çimsa Values (%)	Standard Limits (EN 197-1)	
		min	max
Insoluble Residue	0,15	-	-
SiO <sub>2</sub>	19,1	-	-
Al <sub>2</sub> O <sub>3</sub>	3,9	-	-
Fe <sub>2</sub> O <sub>3</sub>	0,25	-	-
CaO	65,8	-	-
MgO	1,36	-	-
SO <sub>3</sub>	3,5	-	4,0
Loss on Ignition	6,5	-	-
Na <sub>2</sub> O	0,38	-	-
K <sub>2</sub> O	0,18	-	-
Chloride (Cl)	0,002	-	0,1
Free CaO	1,8	-	-

**Beyazlık**

L (Brightness)	92,5
a (Greenness)	-1,50
b (Yellowness)	2,80
Y (Whiteness)	85,5

Physical Properties	Çimsa Values	Standard Limits (EN 197-1)	
		min	max
Specific Gravity	3.00 g/cm <sup>3</sup>	-	5,0
Blaine	4400 cm <sup>2</sup> /g	-	-
Whiteness (Y)	85,50 %	-	-
Vicat Initial Set	95 min	45	-
Vicat Final Set	120 min	-	-
Water Demand	30,00%	-	-
Soundness (Le Chatelier)	1 mm	-	10
Residue at 45 (microns)	0,70 %	-	-
Residue at 90 (microns)	0,00 %	-	-
2-Day Compressive Strength	37 MPa	30,0	-
7-Day Compressive Strength	50 MPa	-	-
28-Day Compressive Strength	60 MPa	52,5	-



# ADVANTAGES



## **HIGH STABILITY**

One of the key expectations of white cement users is maximum stability in product properties. Çimsa EcoShine white cement provides not only high whiteness but also superior stability in strength, setting time, and particle size distribution, minimizing performance variations in the final product.



## **HIGH WHITENESS +++**

Products in the Çimsa Super White cement family offer a minimum whiteness value of 85 (Hunter Lab-Y). The stable whiteness performance helps prevent color variations in dry-mix mortars and precast applications.



## **HIGH FINAL STRENGTH +++**

Çimsa EcoShine white cement is an ideal product for manufacturing long-lasting and high-strength construction chemicals. Classified as CEM II/A-LL 52.5 R according to TS EN 197-1, EcoShine delivers compressive strength above 60 MPa, ensuring superior performance not only at early ages but also at final strength.



## **LOW ALKALI CONTENT**

Portland cements with an equivalent alkali content above 0.6% may form alkali-silica gel when used with reactive aggregates. This gel can absorb water and lead to cracking in the hardened cement matrix. Çimsa EcoShine white cement belongs to the class of cements with an equivalent alkali content below 0.6%, providing resistance against alkali-silica reactions.



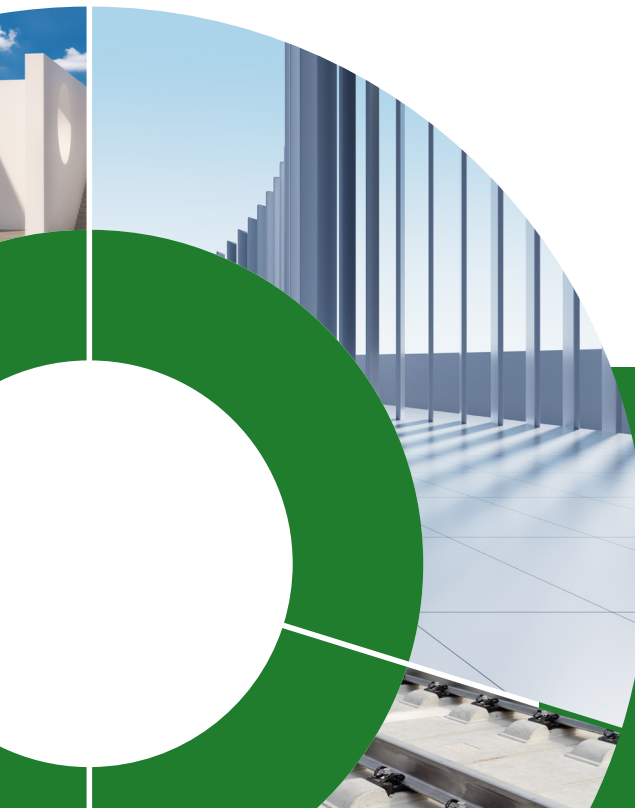
## **HIGH DURABILITY**

Thanks to its high-purity limestone content, Çimsa EcoShine offers excellent volume stability and is classified as a cement resistant to alkali-silica reactions. The total heat of hydration is lower compared to non-blended cements.



## **LOW CARBON FOOTPRINT**

Çimsa EcoShine, as a blended white cement, stands out for its contribution to environmental sustainability. With its high-purity marble powder content, EcoShine is not only among the whitest but also among the most environmentally friendly white cements. Its carbon footprint is significantly lower compared to conventional cements.



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